

## AMENDMENTS TO THE CLAIMS

1. (Previously amended) An isolated antibody specifically binding at least one epitope of a mammalian heparanase protein, said heparanase protein being at least 90% homologous to SEQ ID NO:2.
2. (Original) The antibody of claim 1, wherein said heparanase protein is native.
3. (Original) The antibody of claim 1, wherein elicitation of the antibody is through *in vivo* or *in vitro* techniques, said antibody having been prepared by a process comprising the steps of :
  - (i) exposing cells capable of producing antibodies to said at least one epitope of said heparanase protein and thereby generating antibody producing cells;
  - (ii) fusing said antibody producing cells with myeloma cells and thereby generating a plurality of hybridoma cells each producing monoclonal antibodies;
  - (iii) screening said plurality of monoclonal antibodies to identify a monoclonal antibody which specifically binds heparanase.
4. (Original) The antibody of claim 1, wherein the antibody is selected from the group consisting of a polyclonal antibody and a monoclonal antibody.
5. (Original) The antibody of claim 4, wherein said polyclonal antibody is selected from the group consisting of a crude polyclonal antibody and an affinity purified polyclonal antibody.
6. (Previously amended) An isolated antibody elicited by at least one epitope of a mammalian heparanase protein, said heparanase protein being at least 90% homologous to SEQ ID NO:2.

7. (Original) The antibody of claim 6, wherein said heparanase protein is recombinant.

8. (Original) The antibody of claim 6, wherein elicitation of the antibody is through *in vivo* or *in vitro* techniques, said antibody having been prepared by a process comprising the steps of:

- (i) exposing cells capable of producing antibodies to said at least one epitope of said heparanase protein and thereby generating antibody producing cells;
- (ii) fusing said antibody producing cells with myeloma cells and thereby generating a plurality of hybridoma cells each producing monoclonal antibodies; and
- (iii) screening said plurality of monoclonal antibodies to identify a monoclonal antibody which specifically binds heparanase.

9. (Original) The antibody of claim 6, wherein the antibody is selected from the group consisting of a polyclonal antibody and a monoclonal antibody.

10. (Original) The antibody of claim 9, wherein said polyclonal antibody is selected from the group consisting of a crude polyclonal antibody and an affinity purified polyclonal antibody.

11. (Previously added) An isolated antibody specifically binding at least one epitope of a mammalian heparanase protein, said heparanase protein being at least 80% homologous to SEQ ID NO:2.

12. (Previously added) An isolated antibody elicited by at least one epitope of a mammalian heparanase protein, said heparanase protein being at least 80% homologous to SEQ ID NO:2.

13. (New) An isolated antibody specifically binding at least one epitope of a mammalian heparanase protein, said heparanase protein being at least 70% homologous to SEQ ID NO:2.

14. (New) An isolated antibody specifically binding at least one epitope of a mammalian heparanase protein, said heparanase protein being at least 60% homologous to SEQ ID NO:2.

15. (New) An isolated antibody specifically binding at least one epitope of a mammalian heparanase protein, said heparanase protein being at least 95% homologous to SEQ ID NO:2.

16. (New) An isolated antibody specifically binding at least one epitope of a mammalian heparanase protein, said heparanase protein being at least 95% homologous to SEQ ID NO:2.

17. (New) An isolated antibody specifically binding at least one epitope of a mammalian heparanase protein, said heparanase protein being at least 85% homologous to SEQ ID NO:2.

18. (New) An isolated antibody specifically binding at least one epitope of a mammalian heparanase protein, said heparanase protein being at least 75% homologous to SEQ ID NO:2.

19. (New) An isolated antibody specifically binding at least one epitope of a mammalian heparanase protein, said heparanase protein being at least 65% homologous to SEQ ID NO:2.

20. (New) An isolated antibody elicited by at least one epitope of a mammalian heparanase protein, said heparanase protein being at least 70% homologous to SEQ ID NO:2.

21. (New) An isolated antibody elicited by at least one epitope of a mammalian heparanase protein, said heparanase protein being at least 60% homologous to SEQ ID NO:2.

22. (New) An isolated antibody elicited by at least one epitope of a mammalian heparanase protein, said heparanase protein being at least 95% homologous to SEQ ID NO:2.

23. (New) An isolated antibody elicited by at least one epitope of a mammalian heparanase protein, said heparanase protein being at least 85% homologous to SEQ ID NO:2.

24. (New) An isolated antibody elicited by at least one epitope of a mammalian heparanase protein, said heparanase protein being at least 75% homologous to SEQ ID NO:2.

25. (New) An isolated antibody elicited by at least one epitope of a mammalian heparanase protein, said heparanase protein being at least 65% homologous to SEQ ID NO:2.